

Title (en)

DC voltage converter with several isolated regulated outputs

Title (de)

Gleichspannungswandler mit mehreren isolierten geregelten Ausgängen

Title (fr)

Convertisseur de tension continue à plusieurs sorties régulées isolées

Publication

EP 1717938 B1 20160928 (EN)

Application

EP 06111254 A 20060316

Priority

FR 0550874 A 20050404

Abstract (en)

[origin: EP1717938A1] The present invention relates to a DC voltage converter with soft switching of the type with half-bridge arrangement at the primary side and of quasi-resonant half-wave type at the secondary side. This converter comprises a single transformer (Trf) and can generate a plurality of regulated voltages at output (Vout1,Vout2). It furthermore comprises a resonant circuit (Lf,Cr1,D1;Lf,Cr,D1) for creating a half-wave resonant current in the secondary winding (Ls) and charging a first load capacitor (Cs1) so as to produce a first DC voltage (Vs1). It furthermore comprises an inductive circuit (D2,Lr,T3) connected between said secondary winding and a second load capacitor (Cs2) able to generate a current so as to charge the second load capacitor during a part of the half-wave of the resonant current flowing in the secondary winding and thus produce a second DC voltage (Vs2).

IPC 8 full level

H02M 3/335 (2006.01)

CPC (source: EP KR US)

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Cited by

EP2456058A1; EP1983639A1; EP2043243A1; CN106104967A; EP3134957A4; US10737586B2; US9825553B2; US11456669B2

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DE FR GB

DOCDB simple family (publication)

EP 1717938 A1 20061102; EP 1717938 B1 20160928; CN 1848637 A 20061018; CN 1848637 B 20110928; FR 2884076 A1 20061006; JP 2006288195 A 20061019; JP 4785595 B2 20111005; KR 101248080 B1 20130327; KR 20060106878 A 20061012; TW 200637119 A 20061016; TW I373196 B 20120921; US 2006220591 A1 20061005; US 7279808 B2 20071009

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